Protective Breathing Equipment 15-40 F-xx

1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION : Protective Breathing Equipment (PBE) :
15-40 F / 15-40F-10 / 15-40F-11/ 15-40F-80

SUPPLIER : Air Liquide Advanced Technologies
2 rue de Clémenciere
38 360 Sassenage
FRANCE
Telephone : +33 (0) 476 436 030 or +33 (0) 476 436 010
Fax : +33 (0) 476 436 098

2 COMPOSITION / COMPONENT INFORMATION

CHEMICAL NATURE :
The PBE contains pressurized oxygen and soda lime in granules.

HAZARDOUS COMPONENTS :
Pressurized gaseous oxygen
Chemical formula : O_2
Preparation of calcium and sodium hydroxides (3%)

IMPURITIES (hazardous) : None

CAS No.	**07782-44-7 and 1305-62-0**
UN No.	**UN 3072 Class 9**
EEC No. (EINECS)	**231-956-9**

3 HAZARD IDENTIFICATION

PRINCIPAL HAZARDS :
Equipment contains pressurised gas.
The soda lime preparation is an eye and skin irritant.

SPECIFIC RISKS :
Oxygen is an oxidant, strongly helping combustion, can react violently with combustibles.

4 FIRST-AID

IN CASE OF INHALATION:
The inhalation of gas contained in the PBE is not a hazard in itself.
Using the PBE may be uncomfortable and using it requires a special training and practice.

5 FIRE-FIGHTING MEASURES

SPECIFIC RISKS :

Oxygen helps combustion; exposure to fire may cause thermal fuses to melt and may release 39 litres of oxygen.
Non-flammable.

MEANS OF SUPPRESSION :
RECOMMENDED

Sprayed water, powder, foam.

SPECIFIC HAZARDS :

Contains an oxidant product. Explosive in the presence of certain combustibles.

PARTICULAR METHODS OF INTERVENTION :

Move the equipment away from the fire.

PROTECTION OF FIRE-FIGHTING PERSONNEL :

Fire-resistant garments.

6 MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL DISPERSION

INDIVIDUAL PRECAUTIONS :

In case of spilling of soda lime, wear protective garments, gloves and safety goggles.

PRECAUTIONS FOR ENVIRONMENTAL PROTECTION :

Return the equipment to the supplier for treatment.

CLEANING METHODS :

Collect with a scoop and store in a metallic or cardboard container, dumping according to § 13; clean the dust abundantly with water.

7 HANDLING AND STORAGE

HANDLING :
TECHNICAL MEASURES :

See equipment technical manual.

PRECAUTIONS:

See equipment technical manual, usage limited to 15 minutes.

USER INSTRUCTIONS :

See user manual and the indications mentioned on the equipment box.
All unpacked equipment should be returned to the supplier (even if it was not used).

STORAGE:
TECHNICAL MEASURES :

Maintain stores in its original box, verify periodically the packing seal.

STORAGE CONDITIONS :

The equipment should be stored in its original box.

INCOMPATIBLE MATERIALS :

Not applicable

PACKING MATERIALS :

Special auto extinguishable poly-carbonate box for the PBE
Outer packing, no special requirement.

8 CONTROL OF EXPOSURE / PERSONAL PROTECTION

PERSONAL PROTECTION :

Do not smoke while handling the product.

EXPOSURE PERIOD :

The life (and usage) period of the equipment is limited to 15 minutes from the tilting of the pallet, see user manual.

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE of gas contained in the equipment

FORM : Pressurised gas
COLOUR : Colourless
ODOUR : Odourless
FLASH POINT : Not relevant
SELF-COMBUSTION TEMPERATURE : Not relevant
FLAMMABILITY CHARACTERISTICS : Not relevant, oxidant gas
VAPOUR PRESSURE : Not determined
MOLAR MASS : 32
BOILING POINT : -183°C
RELATIVE DENSITY, gas / (air=1): 1.1

PHYSICAL STATE of soda lime contained in the equipment

FORM : Solid, granules
COLOUR : White
ODOUR : Sweet
FLASH POINT : Not applicable
SELF-COMBUSTION TEMPERATURE : Not applicable
FLAMMABILITY CHARACTERISTICS : Not applicable
BOILING POINT/INTERVALS : Not determined
VAPOUR PRESSURE : Not determined
RELATIVE DENSITY with reference to water : 2
SOLUBILITY IN THE WATER : Slightly soluble

10 STABILITY AND REACTIVITY

STABILITY :

Stable under normal storage and usage conditions.
Active in the absorption of CO_2 and humidity on contact with the air.

CONDITIONS TO BE AVOIDED :

During usage, may react violently with combustible materials.

MATERIALS TO BE AVOIDED :

Oils and greases.
Pure or diluted acids, the solvents.

HAZARDOUS BREAKDOWN PRODUCTS :

Reacts with trichloroethylene and produces carbon-monoxide and other hazardous gases.

11 TOXICOLOGICAL INFORMATION

No toxicological effect with regard to oxygen.
Possible irritation due to inhalation or contact with the skin or the eyes, in case of damage of the equipment.

12 ECOLOGICAL INFORMATION

No bioaccumulation effect, low environmental hazard.

13 CONSIDERATIONS REGARDING ELIMINATION

Waste disposal of breathing equipment must be in accordance with appropriate local regulations.
Do no dispose of equipment without removing all hazardous materials for legal disposal

14 INFORMATION RELATING TO TRANSPORT

TRANSPORT :

ADR/RID, IMDG, ICAO/IATA		
IDENTIFICATION No.	**:**	**UN 3072**
DESIGNATION	**:**	**Life-saving appliances, not self-inflating** Containing dangerous goods as equipment
CLASS/DIV.	**:**	**9**
Classification code ADR/RID	**:**	**9**
HAZARD CODE	**:**	**M5**

15 REGULATORY INFORMATION

CLASSIFICATION AND LABELLING ACCORDING TO EEC:

CE CLASSIFICATION	**:**	**O ; R8**
LABELLING	**:**	**O ; Oxidant**
RISK LINES	**:**	**R8 helps the inflammation of combustible materials**
SAFETY LINES	**:**	**S17 Keep away from combustible materials** **S21 Do not smoke during use.**

16 OTHER INFORMATION

Ensure compliance with all national or local regulations.
Make sure that the users have been trained to use the equipment.
This safety datasheet has been drafted in accordance with current European Guidelines and is applicable in all the countries that have adapted the guidelines into their national laws.
Datasheet updated on 23rd September 2013.